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126 and 134

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(server same first information same second information same processing equipment same first network compliant) and (collecting attribute same load information) and (storing information same terminal equipment same second network compliant) and (generating same list information) and (sending same list information)	1

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(server same first information same second information same processing equipment same first network compliant) and (collecting attribute same load information) and (storing information same terminal equipment same second network compliant) and (generating same list information) and (sending same list information)

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☐ 1. Document ID: US 20040063402 A1

L1: Entry 1 of 1

File: PGPB

Apr 1, 2004

DOCUMENT-IDENTIFIER: US 20040063402 A1

TITLE: Method and apparatus for mobile communication utilizing load balancing

Detail Description Paragraph:

[0216] Included in the programming (software) of the general/specialized computer or microprocessor are software modules for implementing the teachings of the present invention, including, but not limited to, collecting attribute and load information from the second information processing equipment, storing information corresponding to an address acquired by terminal equipment in a second network compliant with the protocol and to an address assigned to terminal

CLAIMS:

1. A server in a first network compliant with a protocol, the server comprising: a first information processing equipment including a representative function and an interface having an address indicating a group of interfaces; a second information processing equipment without the representative function, wherein the first information processing equipment further includes a collecting device configured to collect attribute and load information from the second information processing equipment, wherein the second information processing equipment includes a storing device configured to store information corresponding to an address acquired by terminal equipment in a second network compliant with the protocol and to an address assigned to terminal equipment in the first network, wherein the first information processing equipment further includes a listing device configured to generate list information from the attribute and load information collected from the second information processing equipment and a sending device configured to send the list information the terminal equipment when the server receives a message addressed to the address indicating the group of interfaces.

9. A method for mobile communication for a server in a first network compliant with a protocol, wherein the server includes a first information processing equipment with a function and a second information processing equipment without the function, wherein the first information processing equipment includes an interface having an address indicating a group of interfaces, the method comprising: collecting attribute and load information from the second information processing equipment; storing information corresponding to an address acquired by terminal equipment in a second network compliant with the protocol and to an address assigned to terminal equipment in the first network; generating list information from the attribute and load information collected from the second information processing equipment; receiving a message addressed to the address indicating the group of interfaces; and sending the list information.

12. The method of claim 9, further comprising: storing a set of entries including a

source address of a message addressed to the address indicating the group of interfaces and list information sent to the source address; and referring to the set of entries when the first information processing equipment receives a message addressed to the address indicating the group of interfaces; when the source address of the message addressed to the address indicating the group of interfaces exists in a storage area storing the set of entries, reading the list information from the storage area and sending the list information to a sender of the message.

14. A computer-readable medium carrying one or more sequences of one or more instructions for mobile communication for a server in a first network compliant with a protocol, wherein the server includes a first information processing equipment with a function and a second information processing equipment without the function, wherein the first information processing equipment includes an interface having an address indicating a group of interfaces, the one or more sequences of one or more instructions including instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of: collecting attribute and load information from the second information processing equipment; storing information corresponding to an address acquired by terminal equipment in a second network compliant with the protocol and to an address assigned to terminal equipment in the first network; generating list information from the attribute and load information collected from the second information processing equipment; receiving a message addressed to the address indicating the group of interfaces; and sending the list information.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Da
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Terms	Documents
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"INTERFERENCE SEARCH" RESULTS



US 20040063402A1

(19) **United States**

(12) **Patent Application Publication**
Takeda et al.

(10) Pub. No.: **US 2004/0063402 A1**

(43) Pub. Date: **Apr. 1, 2004**

(54) **METHOD AND APPARATUS FOR MOBILE COMMUNICATION UTILIZING LOAD BALANCING**

Publication Classification

(51) Int. Cl.⁷ **H04Q 7/20**

(52) U.S. Cl. **455/41.1; 455/414.1; 455/446**

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Koh Ohnishi, Yokohama (JP)**

(57) ABSTRACT

A method and apparatus are provided for mobile communication utilizing load balancing. When a home agent (HA) consists of one or more servers with each server being assigned a Mobile IPv6 Home-Agents Anycast Address, a nearby router does not store the link-layer addresses with respect to the Anycast addresses of the servers in its neighbor cache. Consequently, load balancing between or among the servers could not be performed. To solve this problem, in one example, an HA is provided that comprises a representative HA and distributed HAs. The representative HA is assigned an Anycast Address. The representative HA includes a collecting device configured to collect HA lists and load information from the distributed HAs. The representative HA dynamically creates a HA list and sends the HA list to a mobile node (MN). The MN registers its current location with an IIA from the HA list included in a Home Agent Address Discovery Reply message. The load on the HA can then be shared by the servers constituting the HA.

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(21) Appl. No. **10/606,259**

(22) Filed: **Jun. 26, 2003**

(30) **Foreign Application Priority Data**

Sep. 26, 2002 (JP) 2002-280154

